

Nicholas Coiner

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US Citizen residing in Cupertino, CA.

Education & Certificates

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| • B.S in Computer Science from UCDavis | GPA: 3.27 | Graduated June 2024 |
| • De Anza College Continuing Education | | January 2025 to Current |
| • A.S.T. in Computer Science from De Anza College | | Graduated June 2022 |
| • Full Stack Developer Certificate from UCDavis | | Graduated September 2023 |
| • Currently applying to Master's programs in Computer Science and AI | | |

Skills and Qualifications:

- **Languages:** C, C++, Zig, Rust, Python, JavaScript, HTML, CSS, SQL, MATLAB
- **Frameworks & Tools:** React, Node.js, ExpressJS, MongoDB, Three.js, Git, GitHub, GitLab
- **Concepts:** OOP, CI/CD, WebGPU, Reinforcement Learning, Evolutionary Algorithms, RLHF
- **Other:** Electronics, Serial Communication, Whisper, OpenAI API, VAD, Linux

Relevant Work Experience

Contract Software Engineer *May 2025 to Current*
DataAnnotationTech

- Written, graded and reviewed other engineers' **JavaScript** code bases as lead programmer.
- Performed **Reinforcement Learning** with **Human Feedback** for **fine-tuning** AI systems.
- Organized and created **Training Data Sets** and scored AI produced **Python** and **Rust** code.
- Created **Fine-Grained Criteria** for evaluating AI model responses.

Assistant Programmer and QA Intern *June 2014 to September 2016*
GPS Source (military defence contractor in Pueblo, Colorado)

- Mostly focused on Quality Assurance for military-grade GPS products.
- Learned **Python** programming skills and cryptographic methods.
- Learned **C++** and wrote cross-platform device drivers.

Project Experience

AI Discord Chatbot (private repository) *April 2025 to Current*

- Built an interactive chatbot using **Python**, **Javascript**, Discord **API**, and **Whisper** for real-time speech to text transcription.
- Used Voice Activity Detection (**VAD**) and **Voice Isolation** to support multi-user conversations.
- Designed a live 3D avatar viewer with **JavaScript** and **Three.js** to animate chatbot responses.
- Architected the system using multiple custom **Python** daemons for modularity.

Novel NN Architecture (Master's Thesis track project) *January 2025 to Current*

- Created a custom neural architecture simulation using **Zig**, **JavaScript**, and **WebGPU** compute shaders.
- Simulated billions of interconnected virtual neurons with signal-based tensor graphs.
- Developed training systems using **Python**-based reinforcement learning and evolutionary

algorithms.

- Engineered a lightweight frontend to visualize network activity in real-time.

Custom OBD-II UART Serial Device and Terminal

June 2024 to August 2024

- Designed and hand-built a custom vehicle diagnostics reader powered by the car battery.
- Wrote in the **C** language a UART serial interface to read OBD-II data from car ECUs.
- Developed a terminal-based dashboard to display live sensor data and error codes.

UCDavis HCI App: Meetings ([Github](#))

January 2024 to March 2024

- Developed a group scheduling tool using the **MERN** stack: **MongoDB**, **Express.js**, **React**, and **Node.js**
- Integrated the **Zoom API** to automatically create meetings between available users
- Used **Git** and **GitHub** for version control, and led the design of backend and frontend features

Sudoku Shuffle ([Github](#))

July 2023 to September 2023

- Built a Sudoku game site with a **React** frontend and **Node.js/Express** backend using **JavaScript**
- Connected third-party puzzle databases via **RESTful API** integration
- Participated in **Agile** development with a **Google PM**, using **CI/CD**, **Git**, and collaborative version control practices

Customer Service Experience

Whole Foods Team Member and

June 2018 to September 2018

- Served as cashier, bagger, and floor support in a high-volume grocery environment.
- Delivered exceptional customer service, resolving issues quickly and professionally.
- Took initiative in managing task lists and supporting coordination of team schedules.
- Maintained cleanliness and safety in food handling and front-end stations.

Chipotle Team Member

June 2018 to September 2018

- Prepared fresh food on the burrito line, ensuring consistency and speed during peak hours.
- Trained in kitchen prep and opening/closing procedures (sauces, restocking, sanitization).
- Balanced front- and back-of-house responsibilities in a fast-paced setting.
- Collaborated closely with the team to ensure efficiency and food safety compliance.

Panera Bread Cashier and Barista

June 2017 to September 2017

- Operated point-of-sale systems and processed hundreds of daily transactions.
- Crafted coffee and espresso drinks while managing food orders and front-of-house duties.
- Received training and clearance in food safety, sanitation, and allergen handling.
- Provided friendly, efficient service and contributed to positive guest experience.